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January 2000

**Annals of Software Engineering**, Volume 10 Issue 1-4**Publisher:** J. C. Baltzer AG, Science PublishersFull text available: [Publisher Site](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

In this invited paper we review 25 years of propagating formal specification in software engineering. We will do through outlining a paradigmatic approach to the practice of software engineering. For the sake of contrasting argument we ...

2 [Alloy: a lightweight object modelling notation](#)[Daniel Jackson](#)

April 2002

**Transactions on Software Engineering and Methodology (TOSEM)**, Volume 11 Issue 2**Publisher:** ACM [Request Permissions](#)Full text available: [PDF](#) (346.87 KB)**Bibliometrics:** Downloads (6 Weeks): 29, Downloads (12 Months): 277, Downloads (Overall): 1973, Citation Count

Alloy is a little language for describing structural properties. It offers a declaration syntax compatible with graph object models, and a set-based formula syntax powerful enough to express complex constraints and yet amenable to a fully automatic ...

**Keywords:** Object models, Z specification language, first-order logic3 [The design and analysis of real-time systems using the ASTRAL software development environment](#)[Paul Z. Kolano](#), [Zhe Dang](#), [Richard A. Kemmerer](#)

June 1999

**Annals of Software Engineering**, Volume 7 Issue 1-4**Publisher:** J. C. Baltzer AG, Science PublishersFull text available: [Publisher Site](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

ASTRAL is a formal specification language for real-time systems. It is intended to support formal software development and, therefore, has been formally defined. The structuring mechanisms in ASTRAL allow one to build modularized specifications ...

4 [Agent-Based System Design for B2B Electronic Commerce](#)[Anthony Karageorgos](#), [Simon Thompson](#), [Nikolay Mehandjiev](#)

October 2002

**International Journal of Electronic Commerce**, Volume 7 Issue 1**Publisher:** M. E. Sharpe, Inc.**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Agent-based systems are increasingly used to support business-to-business (B2B) electronic commerce and of Internet-based transactions. The design complexity resulting from the multiple interconnected systems in these domains has to be managed ...

**Keywords:** Agent Organizations, Agent-Based E-Business, Agent-Oriented, Software Engineering5 [Instruction-level reverse execution for debugging](#)[Tantut Akgul](#), [Vincent J. Moore](#), III

January 2003

**PASTE '02:** Proceedings of the 2002 ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering**Publisher:** ACM [Request Permissions](#)

Full text available:  [Pdf](#) (241.83 KB)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 23, Downloads (Overall): 270, Citation Count: 6

The ability to execute a program in reverse is advantageous for shortening debug time. This paper presents a reverse execution methodology at the assembly instruction-level with low memory and time overheads. The idea of this approach is to generate ...

**Keywords:** debugging, reverse code generation, reverse execution

Also published in:


January 2003 **SIGSOFT Software Engineering Notes** Volume 28 Issue 1

- 6 [Forms/3: A first-order visual language to explore the boundaries of the spreadsheet paradigm](#)  
Margaret Burnett, John Atwood, Rebecca Walpole-Diag, James Reichwein, Herkimer Gottfried, Sherry Yang  
March 2001 **Journal of Functional Programming**, Volume 11 Issue 2


**Publisher:** Cambridge University Press

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Although detractors of functional programming sometimes claim that functional programming is too difficult or counter-intuitive for most programmers to understand and use, evidence to the contrary can be found by looking at the popularity of spreadsheets. ...

- 7 [Knowledge entry as the graphical assembly of components](#)  
 Peter Clark, John Thompson, Ken Barker, Bruce Porter, Vinay Chaudhri, Andres Rodriguez, Jérôme Thomé, Sun Mishra, Yolanda Gil, Pat Hayes, Thomas Reichherzer  
October 2001 **K-CAP '01: Proceedings of the 1st international conference on Knowledge capture**


**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (137.83 KB)


**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 10, Downloads (Overall): 363, Citation Count: 2

Despite some successes, the lack of tools to allow subject matter experts to directly enter, query, and debug domain knowledge in a knowledge-base still remains a major obstacle to their deployment. Our goal is to create such tools, so that a ...

**Keywords:** components, composition, graphical knowledge entry, knowledge acquisition, knowledge-based systems

- 8 [Uniform comparison of data models using containment modeling](#)  
 E. James Whitehead, Jr.  
June 2002 **HYPERTEXT '02: Proceedings of the thirteenth ACM conference on Hypertext and hypermedia**


**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (300.56 KB)


**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 16, Downloads (Overall): 552, Citation Count: 1

Containment data models are a subset of entity relationship models in which the allowed relationships are either type of containment, storage, or inheritance. This paper describes containment relationships, and containment models, applying them ...

**Keywords:** containment data modeling, hypertext data models

- 9 [Natural-language retrieval of images based on descriptive captions](#)  
 Eugene J. Gugelming, Neil C. Rowe  
July 1996 **Transactions on Information Systems (TOIS)**, Volume 14 Issue 3

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (572.05 KB)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 45, Downloads (Overall): 615, Citation Count: 1

We describe a prototype intelligent information retrieval system that uses natural-language understanding to efficiently locate captioned data. Multimedia data generally require captions to explain their features and significance. Such descriptive captions ...

**Keywords:** captions, multimedia database, type hierarchy


- 10 [Automatic Detection of Human Nudes](#)

D. A. Forsyth, M. M. Fleck

August 1999

**International Journal of Computer Vision** , Volume 32 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

This paper demonstrates an automatic system for telling whether there are human nudes present in an image system marks skin-like pixels using combined color and texture properties. These skin regions are then fed to specialized grouper, ...

**Keywords:** color, computer vision, content based retrieval, erotica/pornography, internet, object recognition

# 11 Qualitative Spatial Representation and Reasoning: An Overview

A. G. Cohn, S. M. Hazarika

January 2001

**Fundamenta Informaticae** , Volume 46 Issue 1-2

**Publisher:** IOS Press

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

The paper is a overview of the major qualitative spatial representation and reasoning techniques. We survey t main aspects of the representation of qualitative knowledge including ontological aspects, topology, distance, orientation and shape. We also ...

**Keywords:** Ontology, Qualitative Spatial Reasoning


# 12 Modeling and Retrieval of Moving Objects

Mohammad Nabil, Anne H. H. Ngu, John Shepherd

January 2001

**Multimedia Tools and Applications** , Volume 13 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

This paper presents a symbolic formalism for modeling and retrieving video data via the moving objects conta in the video images. The model integrates the representations of individual moving objects in a scene with the varying relationships ...

**Keywords:** content-based image retrieval, moving objects model, multimedia retrieval, symbolic video model


# 13 Multimedia Document Models: Sealed Fate or Setting Out for New Shores?

Susanne Boll, Wolfgang Kias, Utz Westermann

August 2000

**Multimedia Tools and Applications** , Volume 11 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

Existing multimedia document models like HTML, MHEG, SMIL, and HyTime lack appropriate modeling primitiv fit the needs of next generation multimedia applications which bring up requirements like reusability of multim content in different presentations ...

**Keywords:** HTML, HyTime, MHEG, SMIL, Z\_YX, document models, multimedia document models, multimedia


# 14 Representing and Reasoning on Conceptual QueriesOver Image Databases

Mohand Said Hacid

March 2000

**Journal of Intelligent Information Systems** , Volume 14 Issue 2-3


**Publisher:** Kluwer Academic Publishers

Full text available:  [Publisher Site](#)



**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

The problem of content management of multimedia data types (e.g., image, video, graphics) is becoming increasingly important with the development of advanced multimedia applications. Traditional database management systems are inadequate for the handling ...


**Keywords:** content-based access of images, description logics, image databases, image representation, intell information retrieval, intentional reasoning, knowledge representation, query containment

**15** [Spreadsheets for images](#) [Marc Levy](#)


July 1994

**SIGGRAPH '94:** Proceedings of the 21st annual conference on Computer graphics and interactive techniques**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (938.95 KB),  [Ps](#) (106.96 KB)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 53, Downloads (Overall): 537, Citation Count: 2


We describe a data visualization system based on spreadsheets. Cells in our spreadsheet contain graphical objects such as images, volumes, or movies. Cells may also contain widgets such as buttons, sliders, or curve editors. Objects are displayed in ...

**Keywords:** data visualization, flow charts, spreadsheets, user interfaces, visual programming languages**16** [Customizing information capture and access](#) [Daniela Rus, Devika Subramanian](#)


January 1997

**Transactions on Information Systems (TOIS)**, Volume 15 Issue 1**Publisher:** ACM  [Request Permissions](#)Full text available:  [Pdf](#) (1.26 MB)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 47, Downloads (Overall): 629, Citation Count: 5


This article presents a customizable architecture for software agents that capture and access information in heterogeneous, distributed electronic repositories. The key idea is to exploit underlying structure at various levels ...

**Keywords:** information gathering, software agents, table recognition**17** [XML query forms \(XQForms\): declarative specification of XML query interfaces](#) [Michalis Petropoulos, Vasilis Vassalos, Yannis Papakonstantinou](#)

April 2001

**WWW '01:** Proceedings of the 10th international conference on World Wide Web**Publisher:** ACMFull text available:  [Pdf](#) (515.35 KB)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 21, Downloads (Overall): 406, Citation Count: 5**Keywords:** XML, XML query language, XSL, query forms & reports**18** [What Do You Know about Mail? Knowledge Representation in the SINIX Consultant](#)[Christel Kernke](#)


June 2000

**Artificial Intelligence Review**, Volume 14 Issue 3**Publisher:** Kluwer Academic PublishersFull text available:  [Publisher Site](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count

The SINIX Consultant is an intelligent help system for the SINIX operating system which answers natural language questions about SINIX concepts and commands and gives unsolicited advice to a user as well. In this paper the representation of ...

**Keywords:** Unix, help systems, intelligent user interfaces, natural language processing, tutoring, user model**19** [Knowledge Discovery in Grammatically Analysed Corpora](#)[Sean Wallis, Gerald Nelson](#)

October 2001

**Data Mining and Knowledge Discovery**, Volume 5 Issue 4**Publisher:** Kluwer Academic PublishersFull text available:  [Publisher Site](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count


Collections of grammatically annotated texts (corpora), and in particular, machine-parsed corpora, present a challenging current methods of analysis. Such corpora are large and highly structured heterogeneous data sources. In this paper we briefly describe ...

**Keywords:** Text Corpora, cyclic knowledge discovery, grammar, linguistics, redescription, structured datasets**20** [Mini-languages: a way to learn programming principles](#)[Peter Brusilovsky, Eduardo Calabrese, Jozef Hvorecky, Anatoly Kouchnirenko, Philip Miller](#)

January 1998

**Education and Information Technologies**, Volume 2 Issue 1

**Publisher:** Kluwer Academic Publishers

Full text available:  [Publisher Site](#)

**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count





Mini-languages are a visually intuitive, simple and powerful way to introduce students to programming. They :  
good foundation for general computer science instruction, provide insight into programming for the general  
population, and teach algorithmic ...

**Keywords:** highereducation, informatics, languages, logo, programming, secondaryeducation

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